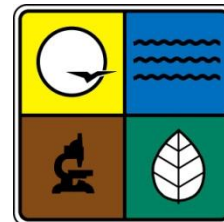


Energy Stakeholder Meeting

Division of Energy – Energy Efficiency
October 25, 2011 – Rolla, MO



MISSOURI
DEPARTMENT OF
NATURAL RESOURCES

Mission and Vision

- **Mission:** The mission of the Missouri Department of Natural Resources is to protect, preserve and enhance Missouri's natural, cultural and energy resources.
- **Vision:** The department envisions a Missouri where people live and work in harmony with our natural and cultural resources, making decisions that result in a quality environment and a place where we can prosper today and in the future.

Division Mission

The Missouri Department of Natural Resources' Division of Energy is a nonregulatory entity that works to protect the environment and stimulate the economy through energy efficiency and renewable energy resources and technologies.

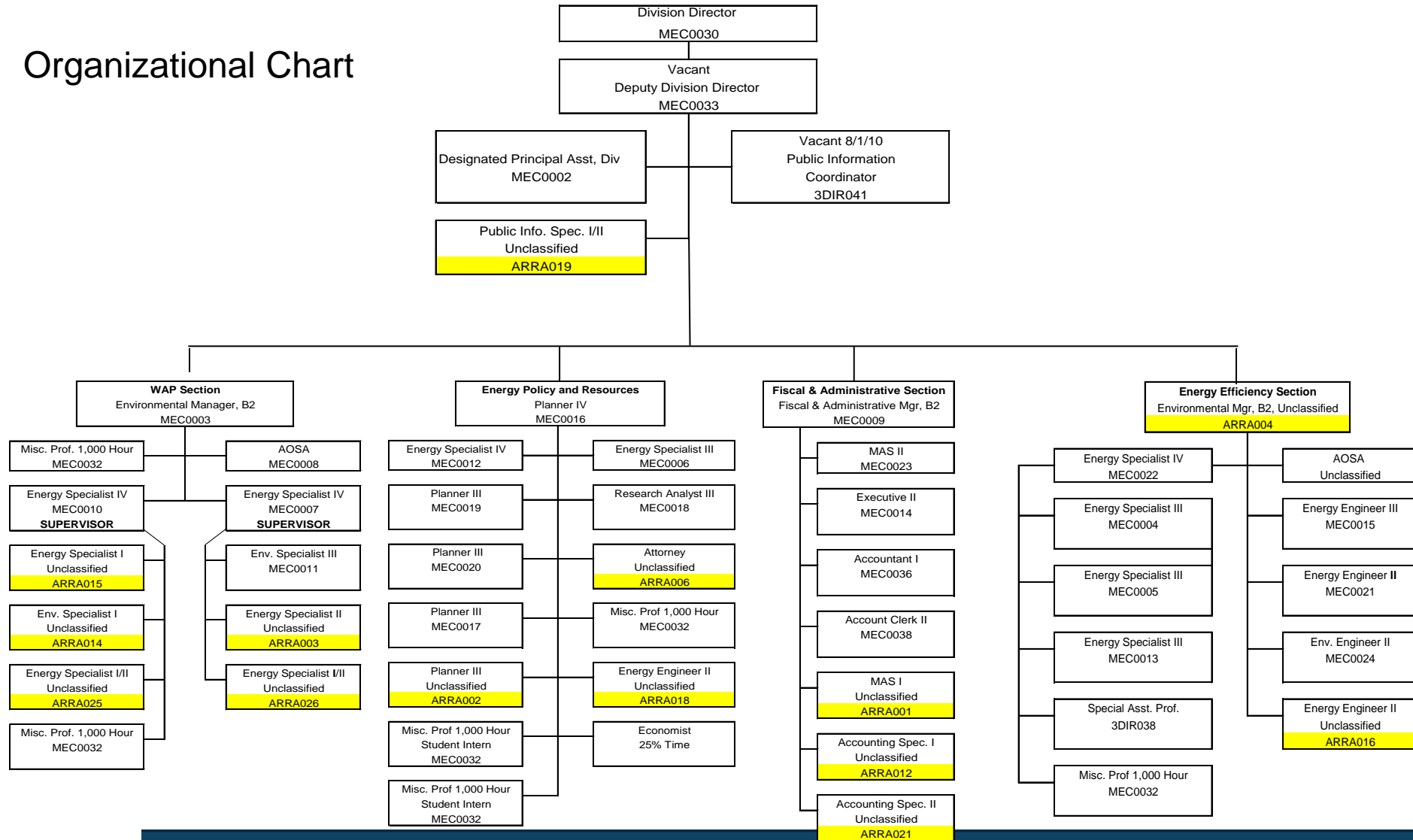
Overview:

- Organization of the division.
- Brief summary of all programs.
- Focus on energy efficiency efforts.
- Collaboration on energy efficiency with other agencies.

Organization of the Division

Missouri Department of Natural Resources

Organizational Chart



Organization of the Division

35 FTE

Total Budget:

Federal

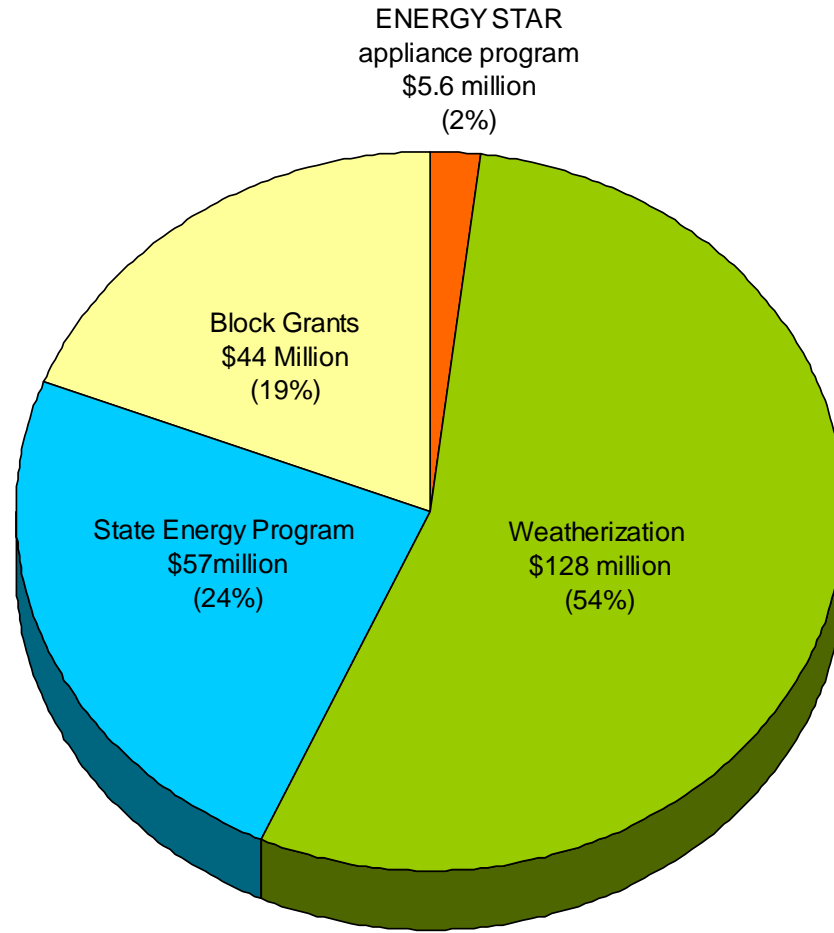
- Weatherization
 - Pre-ARRA \$5 mil
 - ARRA \$128 mil
- State Energy Program
 - Pre-ARRA \$700K
 - ARRA \$57 mil

State Funds

- Interest from Energy Revolving Loan Fund

American Recovery and Reinvestment Act of 2009 (ARRA)

Funding Breakdown



Brief Summary of all Programs

Division of Energy Programs

- Energy Policy and Resources – Legislation, energy resource assessments/supplies, studies, regulatory proceedings, utility collaborative, energy bulletins
- Energy Efficiency – Implements programs, revolving loan fund, state government energy efficiency, state fleet efficiency and alternative fuels.
- Weatherization Assistance Program – Implements federal weatherization program, utility weatherization funds
- Fiscal & Administrative – Budget, accounting, human resources, reporting

Focus on Energy Efficiency Efforts

Energy Policy and Resources

- Key Energy Efficiency Activities:
 - Recommend energy policies to encourage efficiency
 - Perform and promote studies on energy efficiency
 - Encourage Missouri utilities to invest in energy efficiency through regulatory proceedings and collaborative
 - Energy Stakeholder Process to receive meaningful input to inform energy policy and roles of Division of Energy

Energy Efficiency Program

Energy Efficiency Program

- Key Energy Efficiency Activities:
 - Schools and Governments Energy Efficiency Loans.
 - Building operator certification and certification of home energy auditors.
 - Energy efficiency programs in state government facilities.
 - State Fleet Efficiency and Alternative Fuel Program.
 - Industrial energy efficiency assessments – working with the Industrial Assessment Center at the University of Missouri to assist with energy audits.

Energy Efficiency Program

- ARRA “Energize Missouri” Energy Efficiency Activities:
 - Agriculture.
 - Industrial.
 - Home.
 - Appliance rebates.
 - Energy efficiency & conservation block grant.

Agriculture Programs

Agriculture Cost Share Grants

Nearly 1,600 Missouri farmers received \$5.7 in grants for 75% of the cost of energy-saving equipment and systems.

- Examples of equipment and systems include Global Positioning Systems (GPS), frost free waterers, solar fencers and grain dryers.

Agriculture Field Day Energy Training: The department awarded \$500,000 to five organizations that will offer energy-efficiency workshops to more than 1,500 Missouri farmers.



Industrial Energy Efficiency Programs

Energize Missouri Industries provided funding for energy efficiency upgrades through a competitive grant process to assist Missouri industries in reducing energy costs and increasing market competitiveness.

Home Energy Efficiency Programs

- **Homeowner Upgrades and Geothermal Program** awarded over \$8 million in grants for owners of single-family homes to receive energy audits, implement whole-house energy saving measures identified in the audits and install geothermal systems.
- **Neighborhood Challenge Program**
The department awarded grants to two entities to develop and implement a behavioral efficiency program to motivate participating homeowners to reduce their energy consumption.



In-House Energy Monitors

Appliance Rebates

- **\$5.6 million** in federal funds from the U.S. Department of Energy.
- Help homeowners purchase energy-efficient appliances.
- More than 33,000 rebates distributed to homeowners for ENERGY STAR rated appliances.



Energy Efficiency and Conservation Block Grant Program

- 64 grants worth \$11.3 million were awarded to local governments for energy efficiency projects throughout Missouri.
- The program is estimated to save 56 million kWh per year.

The program is divided into four project areas:

- Public Building Energy Efficiency Retrofit Program.
- Water and Wastewater Treatment Efficiency Program.
- Green Streets.
- Special Community Initiatives.

Weatherization Assistance Program

Highlights

- Nearly 200,000 homes have been weatherized from 1977-2011.
- Work through local community agencies throughout Missouri.
- An estimated \$13.3 million was saved in FY 2010 by all families living in homes weatherized through the program.
- (source: lifetime savings calculated by Division weatherization staff)



Collaboration on Energy Efficiency with Other Agencies

Department of Revenue

- **Wood Energy Tax Credit Program** - The Division of Energy evaluates the tax credit applications and certifies to the Department of Revenue each applicant that qualifies as a wood energy-producing facility.
- **Missouri Alternative Fuel Infrastructure Tax Credit** –This tax credit is available to business owners who invest in alternative fuel infrastructure projects in Missouri. The Division reviews the applications and certify to the Department of Revenue each eligible applicant that qualifies for the tax credit.
- **Show Me Green Sales Tax Holiday** – The Division of Energy helps to promote this annual event, especially targeted during implementation of ARRA Appliance Rebate Program.

Department of Agriculture (MDA)

- Missouri Agricultural and Energy Savings Team (MAESTRO)
- University of Missouri Extension

Department of Economic Development

- Pilot Projects:
 - **3M-** provided \$800,000 to 3M to help with the purchase of Solar Film manufacturing equipment.
 - **Noranda Project** - provided \$1,000,000 in funding to upgrade a manufacturing process.
- Qualified Energy Conservation Bonds
- “Hots” Projects

Missouri State Parks

- The Division of State Parks received \$1 million in State Energy Program (ARRA) funding for energy efficiency upgrades
- Upgrades will be highlighted to visitors through educational exhibits, demonstrations and signage.
- Completion of the project is expected in Feb. 2012.



Office of Administration

- **Energy efficiency in state facilities (statute)**
- **Executive Order 09-18 –state facilities**
- **Energy efficient state fleets**